

# CASE STUDY

## BAN HOUAYXAI GOLD AND SILVER MINE

### PROJECT PROFILE

The Ban Houayxai Gold and Silver Mine is located approximately 100km north of the Laos capital Vientiane.

The greenfield processing plant was completed for a cost of US \$208m, with production commencing in April 2012.

### PRODUCTS HANDLED

- Gold
- Silver

### CAPACITY

- 4 MTPA dry ore

### PRODUCTS USED

- Schneider Quantum and M340 PLCs
- CitectSCADA v7.2
- PROFIBUS network on each PLC for instrumentation
- TeSys T DOL motor starters controlled over ethernet
- Altivar 71 VSDs controlled over ethernet
- Ethernet network over fibre optic backbone using DLink VLAN switches



### SCOPE OF WORKS

The process plant consisted of the following items:

- Raw water supply
- Ore crushing and conveying
- SAG and Ball Mills
- High gravity circuit
- Carbon in leach extraction tanks
- Elution circuit
- Cyanide detoxification
- Tailings line including variable choke station and leak monitoring system

### OUR INVOLVEMENT

Electrical, instrumentation and automation design, FAT, construction and commissioning of:

- Control system
- Process plant
- 300 TeSys T DOL motor starters
- VSDs inclusive of MCCs and PCCs
- Quality assurance inclusive of all testing and verifications
- Electrical as-built drawings
- Supply and management of personnel